

5 COMPLEXES OF MID-TRANSITION METALS AND
10 UNSATURATED NITROGENOUS LIGANDS AS SINGLE-SITE CATALYSTS

15 ABSTRACT OF THE DISCLOSURE

Novel compounds are provided which are useful as catalysts, particularly in the
10 polymerization of addition polymerizable monomers such as olefinic or vinyl monomers. The
compounds are complexes of a mid-transition metal coordinated to at least two ligands, at least
one of which is an unsaturated nitrogenous ligand. Depending on ligand substitution,
stereospecific catalysts can be provided, including isospecific catalysts and syndiospecific
catalysts. Catalyst systems containing the novel compounds in combination with a catalyst
15 activator are provided as well, as are methods of using the novel compounds in the preparation
of polyolefins.

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